Diabetic Medicine
Journal of the British Diabetic Association

Contents

Volume 4 Numbers 1—6

January/February 1987 Number 1

Hurdling *C. J. Cripps* 6

Focus *The Editor* 7

Review **Can Molecular and Cell Biology Offer a Cure for Diabetes?** *C. M. Steel* 9

Comment **Hyperglycaemia, Diabetes and Myocardial Infarction** *J. S. Yudkin, G. A. Oswald* 13

Seminars in Immunology **Lymphocyte Subpopulations** *J. S. Jenkins* 19
Immunoglobulins *R. G. Q. Leslie* 24

Original Articles **Effect of Strict Metabolic Control on Regulation of Subcutaneous Blood Flow in Insulin-dependent Diabetic Patients** *J. Kastrup, E. R. Mathiesen, N. Saurbrey, T. Nørgaard, H.-H. Parving, N. A. Lassen* 30
Neutrophil Sorbitol Production Impairs Oxidative Killing in Diabetes *R. M. Wilson, D. E. Tomlinson, W. G. Reeves* 37
Standing to Lying Heart Rate Variation. A New Simple Test in the Diagnosis of Diabetic Autonomic Neuropathy *F. Bellavere, C. Cardone, M. Ferri, L. Guarini, A. Piccoli, D. Fedele* 41
Platelet Aggregation and Coagulation Facfors in Insulin Dependent Diabetics With and Without Microangiopathy *K. J. C. Dallinger, P. E. Jennings, M. J. Toop, O. H. Gyde, A. H. Barnett* 44
Intestinal Permeability in Diabetic Diarrhoea *B. T. Cooper, S. O. Ukabam, I. A. D. O'Brien, J. P. O. Hare, R. J. M. Corrall* 49
Comparison of Glycaemic Control in Diabetic Patients Treated with Morning or Evening Human Ultratard Insulin *B. Edsberg, A. Dejgaard, C. Kühl* 53

Education Section **Compliant Behaviour: Relationship to Attitudes and Control in Diabetic Patients** *T. J. Lockington, K. A. Meadows, P. H. Wise* 56

Clinical Audit **The Effects of One Month High Fructose Intake on Plasma Glucose and Lipid Levels in Non-insulin-dependent Diabetes** *E. J. McAteer, G. O'Reilly, D. R. Hadden* 62
Prevalence of Insulin-Dependent Diabetes Mellitus in Asian Children *A. Samanta, A. C. Burden, G. R. Jones, J. G. Woollands, M. Clarke, P. G. F. Swift, J. R. Hearnshaw* 65
Hyperglycaemia following Acute Myocardial Infarction: The Contribution of Undiagnosed Diabetes *G. A. Oswald, J.S. Yudkin* 68
Glycosylated Haemoglobin Measurement on Blood Samples Taken by Patients: An Additional Aid to Assessing Diabetic Control *R. R. Holman, R. Jelfs, P. M. Causier, J. C. Moore, R. C. Turner* 71

Case Reports **Diabetic Pregnancy Managed with Intraperitoneal Insulin** *V. A. Fonseca, R. K. Menon, P. M. S. O'Brien, O. N. Fernando, R. Stephen, P. Dandona* 74
Pregnancy after Vitrectomy for Proliferative Diabetic Retinopathy *L. B. Young, J. M. Steel, C. P. West, H. B. Chawla* 77

BDA Report **Appointments and Turnover of Consultants and Senior Registrars in Diabetes and Endocrinology in the UK, 1984 and 1985** *P. D. Home, W. M. G. Tunbridge* 79

International Scene **Diabetes in Denmark** *A. Frøland* 83

Media Review 85

DM Diary 86

Diabetic Medicine
Journal of the British Diabetic Association

Contents

Volume 4 Numbers 1—6

January/February 1987 Number 1

Hurdling *C. J. Cripps* 6

Focus *The Editor* 7

Review **Can Molecular and Cell Biology Offer a Cure for Diabetes?** *C. M. Steel* 9

Comment **Hyperglycaemia, Diabetes and Myocardial Infarction** *J. S. Yudkin, G. A. Oswald* 13

Seminars in Immunology **Lymphocyte Subpopulations** *J. S. Jenkins* 19
Immunoglobulins *R. G. Q. Leslie* 24

Original Articles **Effect of Strict Metabolic Control on Regulation of Subcutaneous Blood Flow in Insulin-dependent Diabetic Patients** *J. Kastrup, E. R. Mathiesen, N. Saurbrey, T. Nørgaard, H.-H. Parving, N. A. Lassen* 30
Neutrophil Sorbitol Production Impairs Oxidative Killing in Diabetes *R. M. Wilson, D. E. Tomlinson, W. G. Reeves* 37
Standing to Lying Heart Rate Variation. A New Simple Test in the Diagnosis of Diabetic Autonomic Neuropathy *F. Bellavere, C. Cardone, M. Ferri, L. Guarini, A. Piccoli, D. Fedele* 41
Platelet Aggregation and Coagulation Facfors in Insulin Dependent Diabetics With and Without Microangiopathy *K. J. C. Dallinger, P. E. Jennings, M. J. Toop, O. H. Gyde, A. H. Barnett* 44
Intestinal Permeability in Diabetic Diarrhoea *B. T. Cooper, S. O. Ukabam, I. A. D. O'Brien, J. P. O. Hare, R. J. M. Corrall* 49
Comparison of Glycaemic Control in Diabetic Patients Treated with Morning or Evening Human Ultratard Insulin *B. Edsberg, A. Dejgaard, C. Kühl* 53

Education Section **Compliant Behaviour: Relationship to Attitudes and Control in Diabetic Patients** *T. J. Lockington, K. A. Meadows, P. H. Wise* 56

Clinical Audit **The Effects of One Month High Fructose Intake on Plasma Glucose and Lipid Levels in Non-insulin-dependent Diabetes** *E. J. McAteer, G. O'Reilly, D. R. Hadden* 62
Prevalence of Insulin-Dependent Diabetes Mellitus in Asian Children *A. Samanta, A. C. Burden, G. R. Jones, J. G. Woollands, M. Clarke, P. G. F. Swift, J. R. Hearnshaw* 65
Hyperglycaemia following Acute Myocardial Infarction: The Contribution of Undiagnosed Diabetes *G. A. Oswald, J.S. Yudkin* 68
Glycosylated Haemoglobin Measurement on Blood Samples Taken by Patients: An Additional Aid to Assessing Diabetic Control *R. R. Holman, R. Jelfs, P. M. Causier, J. C. Moore, R. C. Turner* 71

Case Reports **Diabetic Pregnancy Managed with Intraperitoneal Insulin** *V. A. Fonseca, R. K. Menon, P. M. S. O'Brien, O. N. Fernando, R. Stephen, P. Dandona* 74
Pregnancy after Vitrectomy for Proliferative Diabetic Retinopathy *L. B. Young, J. M. Steel, C. P. West, H. B. Chawla* 77

BDA Report **Appointments and Turnover of Consultants and Senior Registrars in Diabetes and Endocrinology in the UK, 1984 and 1985** *P. D. Home, W. M. G. Tunbridge* 79

International Scene **Diabetes in Denmark** *A. Frøland* 83

Media Review 85

DM Diary 86

March/April 1987 — Number 2

Focus
Spreading the Message *P. Home* 97

DM Diary 102

Comment
Continuous Subcutaneous Insulin Infusion in Children
C. E. de Beaufort, G. J. Bruining 103

Original Articles
Low Dose Guar in a Novel Food Product: Improved Metabolic Control in Non-insulin-dependent Diabetes *D. B. Peterson, P. R. Ellis, J. M. Baylis, P. Fielden, J. Ajodhia, A. R. Leeds, E. M. Jepson* 111
Long-Term Organ Culture of Large Numbers of Human Fetal Pancreata: Analysis of Their Insulin Secretion *B. E. Tuch, J. R. Turtle* 116
Measurement by Epigastric Impedance of Gastric Emptying in Diabetic Autonomic Neuropathy *S. G. Gilbey, P. J. Watkins* 122

Symposium: Diabetes and Nutrition
Introduction *J. I. Mann, M. Toeller* 127
Survey of the Management of Diet in 26 Diabetes Centres in Europe *M. Toeller, S. Lion* 129
Simple Sugars and Diabetes *J. I. Mann* 135
New Indices for Selection of Carbohydrate Foods in the Diabetic Diet: Hopes and Limitations *G. Riccardi, A. A. Rivellese* 140
Dietary Protein and the Diabetic Kidney
M. J. Wiseman, R. Dodds, J. J. Bending, G. C. Viberti 144
Pharmacological Modification of Digestion and Absorption
I. Hillebrand 147

Clinical Audit
Proteinuria Prevalence in Insulin-treated Patients: Prediction of Need for End-Stage Renal Failure Treatment *N. R. Waugh, R. T. Jung, R. W. Newton* 151
Haemoglobin A_1 and Congenital Malformation
S. M. Stubbs, M. C. Doddridge, P. N. John, J. M. Steel, A. D. Wright 156
Screening for Diabetes in Pregnancy: Is a Random Blood Glucose Enough?
N. I. Jowett, A. K. Samanta, A. C. Burden 160
Treating Hypertension in Non-insulin-Dependent Diabetes: A Comparison of Atenolol, Nifedipine, and Captopril Combined with Bendrofluazide
J. S. Corcoran, J. E. Perkins, B. I. Hoffbrand, J. S. Yudkin 164

Rostrum
Can Nomenclature for Diabetes Classification be Improved?
T. D. R. Hockaday 169

International Scene
Fourth Annual Meeting of the Anglo-Danish-Dutch Diabetes Group 171

Media Review 172

May/June 1987 — Number 3

Focus
The Editor 185

DM Diary 188

Review
The Microcirculation in Diabetes *J. E. Tooke* 189

Comment
Pulsatile Insulin Delivery: Physiology and Clinical Implications
P. R. Bratusch-Marrain, M. Kamjati, W. Waldhaust 197

Original Articles
The Natural History of Insulin-dependent Diabetes Mellitus in Denmark: 1. Long-term Survival with and without Late Diabetic Complications
K. Borch-Johnsen, H. Nissen, E. Henriksen, S. Kreiner, N. Sailing, T. Deckert, J. Nerup 201
The Natural History of Insulin-dependent Diabetes Mellitus in Denmark: 2. Long-term Survival – who and why *K. Borch-Johnsen, H. Nissen, N. Sailing, E. Henriksen, S. Kreiner, T. Deckert, J. Nerup* 201
Abnormal Cerebrovascular Carbon Dioxide Reactivity in People with Diabetes *D. N. Griffith, S. Saimbi, C. Lewis, S. Tolfree, D. J. Betteridge* 217

Plasma Immunoreactive Somatostatin is Elevated in Diabetic Ketoacidosis and Correlates with Plasma Non-esterified Fatty Acid Concentration *J. Binimelis, S. M. Webb, J. Serrano, M. Codina, R. Corcoy, A. Perez, M. A. Peinado, M. Puig, W. de la Torre, J. Serrat, J. A. Gomez, R. Casamitjana, A. de Leiva* 221

Abnormalities of Foot Pressure in Early Diabetic Neuropathy *A. J. M. Boulton, R. P. Betts, C. I. Franks, P. G. Newrick, J. D. Ward, T. Duckworth* 225

Red Cell Sorbitol Levels During Hyper and Hypoglycaemic Clamp Studies in Insulin-dependent Diabetic Patients *D. E. Price, P. J. Grant, C. M. Airey, M. H. Stickland, J. Kemp, J. K. Wales* 229

Clinical Audit

Prevalence of Smoking in a Diabetic Population: The Need for Action *R. B. Jones, A. J. Headley* 233

The Prognostic Value of Stress Hyperglycaemia and Previously Unrecognized Diabetes in Acute Stroke *C. S. Gray, R. Taylor, J. M. French, K. G. M. M. Alberti, G. S. Venables, O. F. W. James, D. A. Shaw, N. E. F. Cartridge, D. Bates* 237

A Long-term Follow-up of Dietary Advice in Maturity Onset Diabetes: The Experience of One Centre in the UK Prospective Study *P. M. Horrocks, R. Blackmore, A. D. Wright* 241

Lack of Pharmacokinetic Interaction between Glibenclamide and Trimethoprim-Sulphamethoxazole *S. Sjöberg, B. E. Wiholm, R. Gunnarsson, H. Emilsson, E. Thunberg, I. Christenson, J. Östman* 245

Retinopathy and Nephropathy in Insulin-dependent Diabetes: An Inconsistent Relationship? *E. Agardh, G. Tallroth, B. Bauer, U. Cavallin-Sjöberg, C.-D. Agardh* 248

Quantitative Sensory Examination in Diabetic Children: Assessment of Thermal Discrimination *J. J. Heimans, F. W. Bertelsmann, C. E. de Beaufort, A. J. de Beaufort, Y.-A. Faber, G. J. Bruining* 251

The Glycohaemoglobin Assay as a Screening Test for Diabetes Mellitus: The Islington Diabetes Survey *R. D. Forrest, C. A. Jackson, J. S. Yudkin* 254

Case Report

Optic Disc Swelling in Young Diabetic Patients: A Diagnostic Dilemma *S. R. Heller, R. B. Tattersall* 260

Forum

Letters to the Editor 265

BDA Report

Ethnic Minorities in British Diabetic Clinics: A Questionnaire Survey *A. M. Goodwin, H. Keen, H. M. Mather* 266

July/August 1987 — Number 4

Focus

The Editor 281

DM Diary

..... 284

Seminars in Immunology

Islet Cell Antibodies *A. Lernmark* 285

Review

Diabetic Complications of Non-insulin-dependent Diabetes *P. J. Watkins, A. Grenfell, M. Edmonds* 293

Comment

Diabetic Diarrhoea – a True Complication? *B. F. Clarke, R. J. Young* 297

Original Articles

Reproducibility of the Glucagon Test *S. Arnold-Larsen S. Madsbad, C. Kühl* 299

A Comparison of Semisynthetic Human NPH Insulin and Porcine NPH Insulin in the Treatment of Insulin-dependent Diabetes Mellitus *C. Pedersen, A. Hoegholm* 304

The Time Course and Diurnal Variation of Postural Hypotension in Diabetic Autonomic Neuropathy *P. M. Horrocks, M. G. Fitzgerald, A. D. Wright, M. Nattrass* 307

Clinical Audit

Treatment of Patients with Non-insulin-dependent Diabetes Mellitus: Diabetic Control and Insulin Secretion and Action after Different Treatment Modalities *C. B. Hollenbeck, G. M. Reaven* 311

Use of Hospital Services by Elderly Diabetics: The Fredericia Study of Diabetic and Fasting Hyperglycaemic Patients Aged 60–74 Years *E. M. Damsgaard, A. Froland, A. Green* 317

Glucose Tolerance and Glycohaemoglobin: A Population Study of Male to Female Ratios *R. D. Forrest, C. A. Jackson, J. S. Yudkin* 322

Education Supplement

Diabetes Care Based Upon Self-monitoring and Self-treatment *M. Berger* 327

Integrated District Care Based in a Diabetes Centre *K. G. E. Brown* 330

Video Education on Foot Care *K. Bakker* 334

Conference for Young Diabetics *R. W. Newton* 335

Clinical Audit

The Effect of Metformin on Glycaemic Control, Intermediary Metabolism and Blood Pressure in Non-insulin-dependent Diabetes Mellitus *I. W. Campbell, C. Duncan, N. W. Patton, T. Broadhead, G. T. Tucker, H. F. Woods* 337

International Scene

Indian National Seminar on Tropical Diabetology 342

Forum

Letters to the Editor 343

BDA Abstracts

Abstracts of Scientific Papers and Posters Presented at the March 1987 Meeting of the Medical and Scientific Section of the British Diabetic Association 354A

September/October 1987 — Number 5

Focus

The Editor 407

DM Diary

..... 409

Reviews

Insulin Insensitivity in Type 1 Diabetes *Y. T. Kruszynska, P. D. Home* 414

Mechanisms of New Vessel Formation in the Retina *J. V. Forrester* 423

Original Articles

Surface Charge of Red Blood Cells in Insulin-dependent Diabetic Patients with Incipient and Overt Nephropathy *E. R. Mathiesen, C. Smith, M. Lauritzen, E. Hommel, M. Levin, H.-H. Parving* 431

Effect of Fluctuations in Albumin on Serum Fructosamine Assay *D. R. McCance, D. Coulter, M. Smye, L. Kennedy* 434

The Variability of Overnight Urinary Albumin Excretion in Insulin-dependent Diabetic and Normal Subjects *D. L. Cohen, C. F. Close, G. C. Viberti* 437

Variability of Albumin Excretion in Insulin-dependent Diabetics *A. Chachati, R. von Frenckell, J. Foidart-Willems, J. P. Gordon, P. J. Lefebvre* 441

Protein Kinase Activity of the Partially Purified Insulin Receptor from Human Adipocytes *A. Handberg, S. Gammeltoft, H. Juhl* 446

Increased Diene Conjugates in Diabetic Subjects with Microangiopathy *P. E. Jennings, A. F. Jones, C. M. Florkowski, J. Lunec, A. H. Barnett* 452

Sulphonylurea Failure in Type 2 Diabetes: Treatment with a Basal Insulin Supplement *R. R. Holman, J. Steemson, R. C. Turner* 457

Guar Sprinkled on Food: Effect on Glycaemic Control, Plasma Lipids and Gut Hormones in Non-insulin Dependent Diabetic Patients *H. S. Fuessl, G. Williams, T. E. Adrian, S. R. Bloom* 463

Absence of the Sensory Action Potential of the Medial Plantar Nerve: a Sensitive Indicator of Diabetic Neuropathy *R. M. Abraham, R. R. Abraham* 469

Clinical Audit

A Clinico-pathological Study of Diabetic Foot Ulcers *E. W. Jones, I. Peacock, S. McLain, E. Fletcher, R. Edwards, R. G. Finch, W. J. Jeffcoate* 475

A Pilot Diabetic Support Service Based on Family Practice Attenders: Comparison with Diabetic Clinics in East London *B. J. Boucher, H. R. Claff, M. Edmonson, S. Evans, B. T. H. Harris, S. A. H. Hull, E. J. Jones, D. H. Mellins, J. G. Safir, B. Taylor, E. Udezue, M. R. Y. Young, J. S. Yudkin* 480

Case Report

Portal and Mesenteric Vein Thrombosis in Two Diabetic Patients *M. F. Myszor, J. Calam, R. J. F. Hodgson* 485

Living with Diabetes

Evaluation of a Weekend Group for Parents of Children with Diabetes *T. M. Marteau, C. Gillespie, P. G. F. Swift* 488

Product News and Technical Notes

Rapid Detection of Urinary Albumin at Low Concentration by an Agglutination Inhibition Technique *C. F. Close, G. S. Scott, G. C. Viberti* 491

Pre-clinical Assessment of the Performance of the Glucostix and Glucometer II Blood Glucose Monitoring System *D. Chipchase, J. R. Watts* 493

November/December 1987 Number 6

Focus *Tim Dornan* 505

DM Diary 507

Seminars in Immunology

Immunogenetics and Diabetes *A. Gorsuch* 510

Original Articles

Nerve Ischaemia-Resistance: an Early Abnormality in Diabetes *P. G. Newrick, A. J. M. Boulton, J. D. Ward* 517

Continuous Subcutaneous Insulin Infusion versus Injection Therapy: a Randomised Cross-over Trial under Usual Diabetic Clinic Conditions *S. M. Marshall, P. D. Home, R. Taylor, K. G. M. M. Alberti* ... 521

A Genetic Analysis of NIDDM in Punjabi Sikhs and British Causasoid Patients *G. A. Hitmen, P. K. Karir, V. Mohan, P. V. Rao, E. M. Kohner, J. C. Levy, H. Mather* 526

Clinical Audit

Comparison of Overnight, Morning and 24h Urine Collections in the Assessment of Diabetic Microalbuminuria *O. Eshøj, B. Feldt-Rasmussen, M. L. Larsen, E. F. Mogensen* 531

Ambulatory Medical Care of Elderly Diabetics: the Fredericia Study of Diabetic and Fasting Hyperglycaemic Patients Aged 60–74 *E. M. Damsgaard, A. Froland, N. Holm* 534

The Oxford Community Diabetes Study: Evidence for an Increase in the Prevalence of Known Diabetes in Great Britain *H. A. W. Neil, W. Gatling, H. M. Mather, A. V. Thompson, M. Thorogood, G. H. Fowler, R. D. Hill, J. I. Mann* 539

Rostrum

Do we need IGT? *R. J. Jarrett* 544

Living with Diabetes

Educational Achievements, Employment and Social Class of Insulin Dependent Diabetics: A Survey of a Young Adult Clinic in Liverpool *M. Ardron, I. Macfarlane, C. Robinson* 546

Media Review 549

Forum

Letters to the Editor 550

BDA Abstracts

Abstracts of Scientific Papers and Posters from the September 1987 meeting of the Medical and Scientific Section of the British Diabetic Association 552A

Author Index 595

Keyword Index 596

Volume Contents 599